David M. Goldenberg, Sc.D., M.D.
Temple University School of Medicine
Philadelphia, Penna.

Heterotransplantation Studies with Human Lung Cancer. Grant #640R2

The initial objective of this project is the establishment of several serially transplantable human bronchogenic carcinomas in the cheek pouch of the golden hamster. Various methods of conditioning the foreign host will be examined in order to provide the most optimal means for attaining survival and propagation of such xenogeneic neoplasms. Data to date has shown that lung tumors of human origin can be grown at this site in unconditioned adult hamsters, and that these serially transplantable neoplasms have attained highly malignant growth patterns (invasiveness and metastasis) in their animal hosts; two such permanently propagable cell lines are "GW-365" and "GW-426." The cytologic and genetic alterations and/or constancy of various cell types within such heterogeneous cell populations of bronchogenic carcinomas are currently being focused upon with regard to questions of histogenesis and possible host-induced alterations. Current evidence strongly suggests that in vivo hybridizations of human cancer and normal hamster genomes can at times occur, and that this event might have definite implications for the progression of malignancy in man. The possible role of certain host-borne viruses in the process of somatic cell fusion is also being investigated.

Current Grant Level: $33,332.

10050754 18

Source: https://www.industrydocuments.ucsf.edu/docs/yqmk0000